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<u>Education:</u>	<u>Institution</u>	<u>Degree</u>	<u>Date</u>
	Iowa State University	B.S.	1977
	Colorado State University	M.S.	1980
	Colorado State University	Ph.D.	1985

Professional Experience:

2005-Present	Professor, University of Alabama in Huntsville
2011-Present	Consulting Meteorologist, Coleman and Knupp, LLC
1995-2005	Associate Professor, University of Alabama in Huntsville
1991-1995	Assistant Professor, University of Alabama in Huntsville
1985-1991	Research Scientist, University of Alabama in Huntsville

Selected Relevant Publications:

1. Knupp, K., J. Walters, and M. Biggerstaff, 2006: Doppler Profiler and Radar Observations of Boundary Layer Variability during the Landfall of Tropical Storm Gabrielle. *J. Atmos. Sci.*, **63**, 234-251.
2. Knupp, K.R., 2006: Observational analysis of a gust front to bore to solitary wave transition within an evolving nocturnal boundary layer. *J. Atmos. Sci.*, **63**, 2016-2035.
3. Asefi-Najafabady, S., K. Knupp, U. Nair, J. Mecikalski, R. Welch, 2010: Ground-based measurements and Dual-Doppler analysis of 3D wind fields and atmospheric circulations induced by a meso- γ scale inland lake. *J. Geophys. Res.*, 115, D23117.
4. Asefi-Najafabady, S., K. Knupp, J. Mecikalski, R.M. Welch, D. Phillips, 2012: Mesoscale Circulations induced by a small lake under varying synoptic scale flows. *J. Geophys. Res.*, 117, D1.
5. Busse, J., and K. Knupp, 2012: Observed Characteristics of the Afternoon–Evening Boundary Layer Transition Based on Sodar and Surface Data. *J. Appl. Meteor. Clim.*, **51**, 571-582.
6. Knupp, K. R., and co-authors, 2014: Meteorological Overview of the Devastating 27 April 2011 Tornado Outbreak. *Bull. Amer. Meteor. Soc.*, **95**, 1041–1062.
7. Wingo, S.M., and K. R. Knupp, 2015: Multi-platform observations characterizing the afternoon-to-evening transition of the planetary boundary layer in Northern Alabama, USA. *Boundary-Layer Meteorology*, 155, 29-53.
8. Wingo, S., and K.R. Knupp, 2016: Structure of mesovortices in Hurricane Ike (2008) derived from ground-based dual-Doppler analyses. *Mon. Wea. Rev.*, 144, 4245-4263.
9. Knupp, K., A. Lyza, S. Wingo, R. Wade, E. Hipp, and T. Coleman, 2017: Multi-sensor observations of heterogeneous boundary layer evolution in the wake of a decaying rainband. *Boundary Layer Meteorology*, in preparation.
10. Coleman, T. A., A. W. Lyza, K. R. Knupp, and W. Wyatt, 2017: A significant tornado in a heterogeneous boundary layer during VORTEX-SE. *EJSSM* (in final preparation).

Synergistic Activities:

Development and utilization of major research platforms: (a) Mobile Integrated Profiling System (MIPS, 1998-present with multiple upgrades), (b) Advanced (dual polarization, C-band) Radar for Meteorological and Operational Research (ARMOR, 2005-present), (c) Mobile Alabama X-band (MAX) dual polarization radar (2007-present), (d) Mobile Doppler Lidar and Sounding System (MoDLS, 2015-present), (e) Rapidly Deployable Atmospheric Profiling System (RaDAPS, 2016-present).

Participation in large (national-scale) field campaigns, and development of large data bases: TEXAQS (2000), CAMEX-1 (2001), IHOP (2002), BAMEX (2003), MIRAGE (2006), PLOWS (2009-2010), OWLES (2013-2014), PECAN (2015), VORTEX-SE (2016, 2017), Hurricanes at Landfall (1998-present).